Abstract
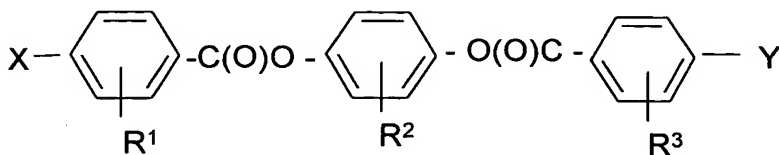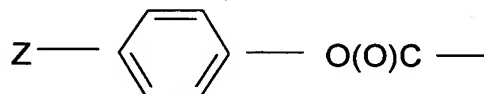
[0036]   Mesogens having the following general formula:

wherein

X and Y independently are selected from the group consisting of amino groups,

5   polymerizable groups, and groups having the following general structure:

wherein Z is selected from the group consisting of terminal functionalities and

polymerizable groups; provided that when X is a polymerizable group, Y is an

amino group;

10   R^2 is a bulky organic group having a bulk greater than R^1 and R^3 whereby, when both

X and Y are polymerizable groups, said bulk is adapted to provide sufficient

steric hindrance to achieve a nematic state at room temperature while

suppressing crystallinity at room temperature, thereby providing effective

rheology and workability at room temperature; and

15   R^1 and R^3 are selected from groups less bulky than R^2 adapted to maintain said

nematic state.